BAY AREA AIR QUALITY MANAGEMENT DISTRICT
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Data Form C
FUEL COMBUSTION SOURCE

(for District use only)

New ☐ Modified ☐ Retro ☐

Form C is for all operations which burn fuel except for internal combustion engines (use Form ICE unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete Form S and attach to this form. If the operation involves a process which generates any other air pollutants, complete Form G and attach to this form.

☐ Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

(If unknown, leave blank)

1. Company Name: Plant No: Source No.
2. Equipment Name & Number, or Description:
3. Make, Model : Maximum firing rate: Btu/hr
4. Date of modification or initial operation: _____ *(if unknown, leave blank)*
5. Primary use (check one): ☐ electrical generation ☐ space heat ☐ waste disposal ☐ testing ☐ abatement device ☐ cogeneration ☐ resource recovery ☐ other ☐ process heat; material heated _____
6. SIC Number _____ If unknown leave blank
7. Equipment type (check one)

Internal combustion Use Form ICE (Internal Combustion Engine) unless it is a gas turbine

☐ gas turbine
☐ other _____ _____hp

Incinerator ☐ salvage operation ☐ pathological waste Temperature _____°F
☐ liquid waste ☐ other _____ Residence time _____Sec

Others ☐ boiler ☐ dryer
☐ afterburner ☐ oven
☐ flare ☐ furnace Material dried, baked, or heated: _____
☐ open burning ☐ kiln
☐ other _____

8. Overfire air? ☐ yes ☐ no If yes, what percent _____%
9. Flue gas recirculation? ☐ yes ☐ no If yes, what percent _____%
10. Air preheat? ☐ yes ☐ no Temperature _____°F
11. Low NO_x burners? ☐ yes ☐ no Make, Model _____
12. Maximum flame temperature _____°F
13. Combustion products: Wet gas flowrate _____acfm at _____°F
Typical Oxygen Content _____ dry volume % or _____ wet volume % or _____ % excess air
14. Typical Use _____ hours/day _____ days/week _____ weeks/year
15. Typical % of annual total: Dec-Feb _____% Mar-May _____% Jun-Aug _____% Sep-Nov _____%
16. With regard to air pollutant flow, what source(s) or abatement device(s) are immediately UPSTREAM?

S _____ **S** _____ **S** _____ **S** _____ **S** _____ **S** _____ **A** _____ **A** _____ **A** _____

With regard to air pollutant flow, what source(s) or abatement device(s), and/or emission points are immediately DOWNSTREAM?

S _____ **S** _____ **A** _____ **A** _____ **P** _____ **P** _____

Person completing this form: Date:

(revised 4/05)

FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

SECTION A: FUEL DATA

	Fuel Name	*Fuel Code***	*Total Annual Usage****	*Maximum Possible Fuel Use Rate*	*Typical Heat Content*	*Sulfur Content*	*Nitrogen Content (optional)*	*Ash Content (optional)*
1.								
2.								
3.								
4.								
5.								

Use the appropriate units for each fuel	Natural Gas	therm*	Btu/hr	N/A	N/A	N/A	N/A
	Other Gas	MSCF*	MSCF/hr	Btu/MSCF	ppm	N/A	N/A
	Liquid	m gal*	m gal/hr	Btu/m gal	wt%	wt%	wt%
	Solid	ton	ton/hr	Btu/ton	wt%	wt%	wt%

SECTION B: EMISSION FACTORS (optional)

	Fuel Name	***Fuel Code****	**Particulates**		**NOx**		**CO**	
			Emission Factor	***Basis Code*	*Emission Factor*	***Basis Code*	*Emission Factor*	***Basis Code*
1.								
2.								
3.								
4.								

Use the appropriate units for each fuel: *Natural Gas = lb/therm**
*Other Gas = lb/MSCF**
*Liquid = lb/m gal**
Solid = lb/ton

Note: * MSCF = thousand standard cubic feet
* m gal = thousand gallons
* therm = 100,000 BTU
** See tables below for Fuel and Basis Codes
*** Total annual usage is: – Projected usage over next 12 months if equipment is new or modified.
– Actual usage for last 12 months if equipment is existing and unchanged.

****Fuel Codes**			
Code	***Fuel***	***Code***	***Fuel***
25	Anthracite coal	189	Natural Gas
33	Bagasse	234	Process gas - blast furnace
35	Bark	235	Process gas - CO
43	Bituminous coal	236	Process gas - coke oven gas
47	Brown coal	238	Process gas - RMG
242	Bunker C fuel oil	237	Process gas - other
80	Coke	242	Residual oil
89	Crude oil	495	Refuse derived fuel
98	Diesel oil	511	Landfill gas
493	Digester gas	256	Solid propellant
315	Distillate oil	466	Solid waste
392	Fuel oil #2	304	Wood - hogged
551	Gasoline	305	Wood - other
158	Jet fuel	198	Other - gaseous fuels
160	LPG	200	Other - liquid fuels
165	Lignite	203	Other - solid fuels
167	Liquid waste		
494	Municipal solid waste		

****Basis Codes**	
Code	***Method***
0	Not applicable for this pollutant
1	Source testing or other measurement by plant (attach copy)
2	Source testing or other measurement by BAAQMD (give date)
3	Specifications from vendor (attach copy)
4	Material balance by plant using engineering expertise and knowledge of process
5	Material balance by BAAQMD
6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
7	Taken from literature, other than AP-42 (attach copy)
8	Guess

(revised: 6/01)